Computer Engineering Minor
2019-2020 Curriculum Chart

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Math

MATH 19A
Calculus

AM 20*
Engr. Math Methods II

OR

MATH 24*
Differential Equations

MATH 19B
Calculus

CSE 16
Applied Discrete Math

*Requires one additional mathematics course as a pre-requisite.

Physics

PHYS 5A/L or 6A/L
Mechanics

PHYS 5C/N or 6C/N
Electricity & Magnetism

Programming

CSE 20
Beginning Programming in Python

CSE 12/L
Computer Systems & Assembly Language

CSE 30
Programming Abstractions: Python

CSE 13E
Embedded Systems and C Programming

OR

CSE 13S
Computer Systems and C Programming

CSE 101
Algorithms and Abstract Data Types

Upper Division Courses

CSE 100/L
Logic Design and Laboratory

CSE 121/L
Microprocessor System Design and Laboratory

OR

ECE 118/L
Introduction to Mechatronics and Laboratory

CSE 120
Computer Architecture

ECE 101/L
Introduction to Electronic Circuits and Lab

The computer engineering minor provides a solid foundation in digital hardware, electronics, and computer software, as well as the prerequisite material in mathematics and physics. The minor is well-suited to students who wish to take part in the design of computer and embedded systems in any discipline. Electrical and Computer Engineering 118/L, *Introduction to Mechatronics and Laboratory* or Computer Science and Engineering 121/L, *Microprocessor System Design and Laboratory* provides a capstone engineering design experience for students pursuing the computer engineering minor.

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Fall _____	Winter _____	Spring _____	Summer _____

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Fall _____	Winter _____	Spring _____	Summer _____

Student Name:

Staff Advisor:

Faculty Advisor: